

| Ref # | Hits   | Search Query   | DBs                              | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|----------------------------------|------------------|---------|------------------|
| S1    | 10     | ("3,210,957") or ("3,591,946") or ("4,419,864") or ("5,440,894") or ("5,927,079") or ("6,021,846") or ("RE37,040") or ("6,397,938") or ("6,378,313") or ("6,481,216")).PN. | US-PGPUB; USPAT                  | OR               | OFF     | 2005/02/23 13:25 |
| S2    | 1      | ("6272867").PN.  | US-PGPUB; USPAT                  | OR               | OFF     | 2005/02/23 13:25 |
| S3    | 5      | ("2797068"   "3738899"   "4010624").PN.  | US-PGPUB; USPAT; USOCR           | OR               | OFF     | 2005/02/23 15:25 |
| S4    | 7      | "5511622"  | US-PGPUB; USPAT; USOCR           | OR               | OFF     | 2005/02/24 08:49 |
| S5    | 1      | ("20010023901").PN.  | US-PGPUB; USPAT                  | OR               | OFF     | 2005/02/24 10:51 |
| S6    | 4      | ((("6401486") or ("6112549") or ("5325673") or ("4445916"))).PN.   | US-PGPUB; USPAT                  | OR               | OFF     | 2005/02/24 13:59 |
| S7    | 135681 | methane  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 13:59 |
| S8    | 785509 | column   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 13:59 |
| S9    | 412519 | initiation or start-up or (start adj up) or initiating   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 15:08 |
| S10   | 4547   | S7 and S8 and S9   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 14:01 |
| S11   | 283662 | initiation or start-up or (start adj up)   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 14:02 |
| S12   | 3489   | S7 and S8 and S11  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 14:02 |
| S13   | 901312 | separation   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2005/02/24 14:03 |

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|-----|---------|---|---|----|-----|------------------|
| S14 | 1917    | S12 and S13   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:03 |
| S15 | 1966276 | normal  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:03 |
| S16 | 1218    | S14 and S15   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:03 |
| S17 | 211604  | reflux  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:03 |
| S18 | 387     | S16 and S17   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:54 |
| S19 | 1265557 | mode  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:54 |
| S20 | 88083   | refrigerant   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:54 |
| S21 | 135681  | methane   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:55 |
| S22 | 785509  | column  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:55 |
| S23 | 901312  | separation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:55 |
| S24 | 302     | S19 and S20 and S21 and S22 and S23                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 14:55 |
| S25 | 1361    | (initiation or start-up or (start adj up) or initiating) adj mode | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 15:11 |

|     |   |             |   |    |     |                  |
|-----|---|-------------|---|----|-----|------------------|
| S26 | 3 | S25 and S24 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2005/02/24 15:12 |
|-----|---|-------------|---|----|-----|------------------|